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Date of mailing: 03 June 1999 (03.06.99)	in its capacity as elected Office
International application No.: PCT/EP98/07517	Applicant's or agent's file reference: WO 2538dV/jdh
International filing date: 16 November 1998 (16.11.98)	Priority date: 24 November 1997 (24.11.97)
Applicant: WAJS, Andrew, Augustine et al	
The designated Office is hereby notified of its election n X in the demand filed with the International prelimination.	
26 March 15	999 (26.03.99)
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was not made before the expiration of 19 months from the priori Rule 32.2(b).	ty date or, where Rule 32 applies, within the time limit under

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To:

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NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

From the INTERNAT	IONAL	RURFAU
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DE VRIES, Johannes, Hendrik, Fokke De Vries & Metman B.V. Overschiestraat 180 NL-1062 XK Amsterdam

Date of mailing (day/month/year) 16 March 2000 (16.03.00)	
Applicant's or agent's file reference WO 2538dV/jdh	IMPORTANT NOTIFICATION
International application No. PCT/EP98/07517	International filing date (day/month/year) 16 November 1998 (16.11.98)

The following indications appeared on record concerning: X the applicant	nt the common representative
Name and Address DE VRIES, Johannes, Hendrik, Fokke De Vries & Metman B.V. Overschiestraat 184 N NL-1062 XK Amsterdam Netherlands	State of Nationality Telephone No. +31-20-669-4432 Facsimile No. +31-20-669-4516 Teleprinter No.
2. The International Bureau hereby notifies the applicant that the following the person the name X the address	the nationality the residence
Name and Address DE VRIES, Johannes, Hendrik, Fokke De Vries & Metman B.V. Overschiestraat 180 NL-1062 XK Amsterdam Netherlands	Telephone No. +31-20-511-0930 Facsimile No. +31-20-511-0931 Teleprinter No.
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РСТ	From the INTERNATIONAL BUREAU
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	DE VRIES, Johannes, Hendrik, Fokke De Vries & Metman B.V. Overschiestraat 184 N NL-1062 XK Amsterdam PAYS-BAS
11 February 2000 (11.02.00)	
Applicant's or agent's file reference WO 2538dV/jdh	IMPORTANT NOTIFICATION
International application No. PCT/EP98/07517	International filing date (day/month/year) 16 November 1998 (16.11.98)
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative
Name and Address MINDPORT B.V. Jupiterstraat 42 NL-2132 HD Hoofddorp Netherlands	State of Nationality NL Telephone No. Facsimile No.
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2. The International Bureau hereby notifies the applicant that the X the person X the name the address	· · · · · · · · · · · · · · · · · · ·
Name and Address IRDETO ACCESS B.V. Jupiterstraat 42 NL-2132 HD Hoofddorp Netherlands	State of Nationality NL Telephone No.
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Marie-José Devillard

Telephone No. (41-22) 338 83.38

34, chemin des Colombettes

1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740 14.35

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NOTIFICATION OF THE RECORDING

From the INTERNATIONAL BUREAU

OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 30 September 1999 (30.09.99)	DE VRIES, Johannes, Hendrik, Fokke De Vries & Metman B.V. Overschiestraat 184 N NL-1062 XK Amsterdam PAYS-BAS
Applicant's or agent's file reference WO 2538dV/jdh	IMPORTANT NOTIFICATION
International application No. PCT/EP98/07517	International filing date (day/month/year) 16 November 1998 (16.11.98)
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative
Name and Address IRDETO B.V. Jupiterstraat 42 NL-2132 HD Hoofddorp Netherlands	State of Nationality State of Residence NL NL Telephone No. Facsimile No.
2. The International Bureau hereby notifies the applicant that the	Teleprinter No. e following change has been recorded concerning:
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Marie-José Devillard

Telephone No.: (41-22) 338 83.38



WORLD INTELLECTUAL PROPERTY ORGA. ZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:
H04L 29/06
A1
(11) International Publication Number: WO 99/27690
(43) International Publication Date: 3 June 1999 (03.06.99)

(21) International Application Number:

PCT/EP98/07517

(22) International Filing Date:

16 November 1998 (16.11.98)

(30) Priority Data:

97203667.7

24 November 1997 (24.11.97) EP

(71) Applicant (for all designated States except US): IRDETO B.V. [NL/NL]; Jupiterstraat 42, NL-2132 HD Hoofddorp (NL).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): WAJS, Andrew, Augustine [GB/NL]; Schotersingel 93, NL-2023 AA Haarlem (NL). FRANSDONK, Robert [NL/NL]; Franz Leharlaan 134, NL-2102 GW Heemstede (NL).
- (74) Agents: DE VRIES, Johannes, Hendrik, Fokke et al.; De Vries & Metman B.V., Overschiestraat 184 N, NL-1062 XK Amsterdam (NL).

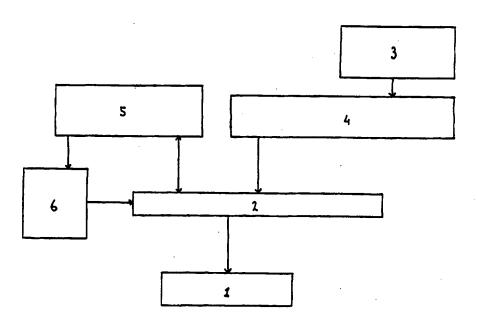
(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: SYSTEM FOR PROCESSING BROADCASTED SIGNALS



(57) Abstract

A system for controlling a tuning means for receiving broadcasted signals comprises a microcomputer, and means to connect the system to the internet. The microcomputer is adapted to process IP signals and to display web pages including URL's. The microcomputer is further adapted to obtain broadcast service information from the internet. A number of URL's for broadcast services are defined as URL's, wherein the system comprises a memory for storing tuning information for a number of broadcast services, and means for selecting a URL. This tuning information can be used for controlling the tuning means. The microcomputer retrieves tuning information from the memory by means of a selected URL. The microcomputer is adapted to use the retrieved tuning information for controlling the tuning means to receive broadcast signals from the corresponding broadcast service.

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System for processing broadcasted signals

The present invention relates to a system for controlling a tuning means for receiving broadcasted signals according to the preamble of claim 1.

Such systems are known and are used in analogue TV 5 ^ sets and digital TV sets. Digital TV sets operate in accordance with the DVB (Digital Video Broadcasting) standard and recently introduced digital TV sets are enhanced with peripherals like modems for user-feedback. Further, microcomputers, in particular PC's, are generally known for which recently internal or external devices are 10 introduced for receiving broadcasted signals, such as analogue or DVB signals. An example of such a device is an integrated network PC card. PC's with modems are widely used. to access the internet, wherein generally a browser program is used. These recent developments show an integration of PC 15 and TV technology. GB-A-2 307 381 discloses an example of such an integrated system. In this known system a data file is obtained from the internet and this data file is directly used to control the tuning means.

The present invention aims to provide an improved system of this type.

According to the invention a system of the abovementioned type is provided characterized in that a number of URL's for broadcast services are defined as URL's, wherein 25 the system comprises a memory for storing tuning information for a number of broadcast services, and means for selecting a URL on a web page, the microcomputer being adapted to retrieve tuning information from the memory by means of a selected URL, wherein the microcomputer is adapted to use the retrieved tuning information for controlling the tuning means to receive broadcast signals from the corresponding broadcast service.

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In the system of the invention the information obtained by selecting a specific URL corresponding to a specific broadcast service is used by the system, i.e. the microcomputer to retrieve the corresponding tuning information from an internal memory. In this manner a flexible system is obtained, wherein the tuning information for the broadcast service can be adapted to the location where the system is used. Thereby the same web pages with URL's can be used world wide, while it is possible to use the information contained in the URL to provide the tuning means tuning information applicable to local broadcast services, which tuning information can be different for different locations.

The invention will be further explained by reference to the drawing in which the software architecture of an embodiment of the system according to the invention is schematically shown.

A system for processing Digital Video Broadcasting (DVB) signals comprises a microcomputer not further shown. The microcomputer is provided with a DVB device 1 also 20 called a network card. This DVB device can be tuned to a specific transport stream as controlled by a driver 2 as will be further explained hereinafter. The microcomputer is connected to the internet and to a MPEG signal source, for 25 example through a satellite, cable or terrestrial transmission. When the DVB device 1 is tuned to a specific transport stream, the video, audio or data information received is further processed in a manner known per se so that for example the video information will be displayed on the 30 microcomputer monitor.

In the embodiment shown in the drawing, a browser program indicate as block 3, is used to access the internet and by going to a certain web site a web page can be displayed on the monitor in a manner known per se. Such web pages may contain one or more URL's providing a connection to another web site by clicking on such a URL, as is well known.

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According to the present invention URL's are used to tune the DVB device 1 to a specific DVB service in the following manner. Activating a selected URL results in providing an IP address by the browser 3 to an IP stack 4. The IP stack 4 computes a so-called MAC (Medium Access Control) address from the IP address received from the browser 3. A control program 5 which is part of the driver 2, receives this MAC address and looks up corresponding tuning information and a service identification from a 10 navigation table 6 stored in a memory. This tuning information and service identification are used by the driver 2 to control the DVB device 1 to tune to the DVB service corresponding to the selected URL. As the operation for tuning the network card or DVB device 1 to the correct transport stream is generally known in DVB technology, this 15 tuning is not further described.

In this manner a standard browser program 3 with IP stack 4 which is also standard in multicast Ethernet applications, can be used to tune the network card to the DVB service. Thereby the system provides a full integration of PC and DVB TV technology in a simple manner. The network card 1 can be tuned to a desired DVB service by simply clicking for example on the name of this DVB service.

It is noted that the retrieval of the tuning
information from the navigation table is not restricted to
the use of an IP address and computation of a MAC address.
Other translations of the information in the URL into access
information to retrieve the coresponding tuning information
can be used.

According to a favourable embodiment the microcomputer is programmed such that the user can select a
plurality of HTML pages for storing in memory so that
frequently used web pages can be immediately displayed.
For example an electronic program guide can be stored in
this manner in memory in the microcomputer so that this
program guide is immediately available to the user. In this
program guide URL's can be embedded for each of the DVB

services included in the program guide. By clicking on a URL for a selected DVB service the network card 1 will be tuned to the desired DVB service. Of course it is also possible to have a default setting in the computer for storing certain HTML pages.

As an alternative for a system based on a PC as a microcomputer, the system can be based on a DVB TV set having a so-called set top box. This set top box is preferably configured to cache a plurality of HTML pages as electronic program guide pages for the DVB TV set. As the set top box has a connection to the internet, one or more of the cached pages can provide URL's to internet sites instead of DVB services. In the present specification the word microcomputer is used to cover a PC, set top box or any other equivalent equipment. Further it is noted that the word internet is used to cover also any intranet or other equivalent network.

In an other embodiment of the system described, a special broadcast enhanced browser can be used, wherein the enhancement provides for processing of special URL syntax DVB addresses, wherein the normal internet address in a URL is replaced by a DVB address as follows:

dvb://<original network id.>.<service id>/

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In this example the DVB address is a 16 bit original network identifier in combination with a 16 bit service identifier. For compatibility with the internet protocol, the two 16 bit values can be split into four 8 bit values. The DVB address will be indicated in this specification as <DVB address>.

In a further embodiment, the URL can contain an indication of the type of DVB service such as TV, radio and data, in the following manner:

dvb-tv://<DVB address>
dvb-radio://<DVB address>
DVB-data://<DVB address>.

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It is noted that in the above described embodiments MPEG signals are mentioned as an example of broadcast signals. It is also possible to apply the invention in a system operating with other broadcast signals and also with analogue signals. It is further noted that the wording 'broadcast channel' covers any non IP based broadcast channel.

BNSDOCID: < MO

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CLAIMS

- 1. System for controlling a tuning means for receiving broadcasted signals, comprising a microcomputer, and means to connect the system to the internet, the microcomputer being adapted to process IP signals and to display web pages including URL's, wherein the microcomputer is adapted to obtain broadcast service information from the internet, characterized in that a number of URL's for broadcast services are defined as URL's, wherein the system comprises a memory for storing tuning information for a number of broadcast services, and means for selecting a URL, 10 the microcomputer being adapted to retrieve tuning information from the memory by means of a selected URL, wherein the microcomputer is adapted to use the retrieved tuning information for controlling the tuning means to receive broadcast signals from the corresponding broadcast 15 service.
 - 2. System according to claim 1, wherein the microcomputer is adapted to translate the selected URL into an address which is used to access the memory for retrieving the tuning information of the corresponding broadcast service.
 - 3. System according to claim 2, wherein the selected URL provides an IP address which is placed in an IP stack, wherein the IP address is translated in a MAC address, said MAC address being used to access said memory.
 - 4. System according to claim 3, wherein the URL's for broadcast services are defined in a broadcast URL syntax (broadcast://
broadcast address>).
- 5. System according to any one of the preceding claims, comprising means for downloading a tuning table from an external source, preferably from the internet or a broadcast service provider.

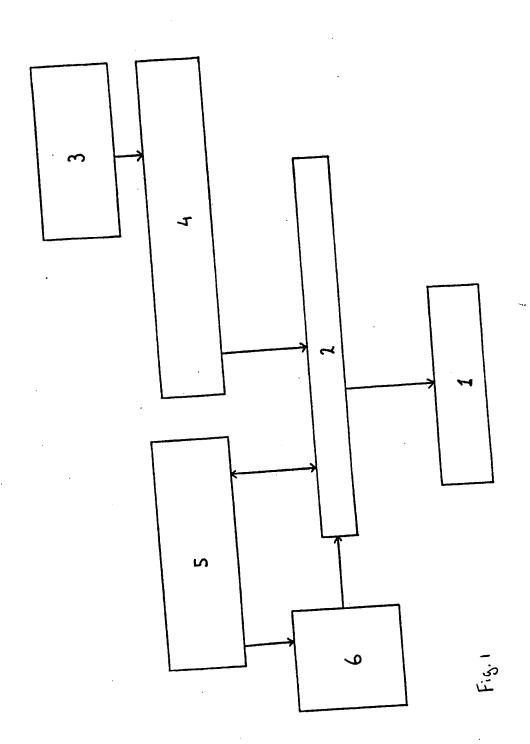
6.System according to any one of the preceding claims, comprising means for selecting a plurality of HTML pages and means for caching the selected HTML pages.

7. System according to claim 6, wherein said HTML pages include an electronic program guide, said electronic program guide including URL's for broadcast services.

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PCT/EP 98/07517

A. CLASS IPC 6	FICATION OF SUBJECT MATTER H04L29/06		
According t	o International Patent Classification (IPC) or to both national class	sification and IPC	
	SEARCHED		
Minimum di IPC 6	ocumentation searched (classification system followed by classifi H04N H04L	cation symbols)	
Documenta	ltion searched other than minimum documentation to the extent the	at such documents are included in the fields	searched
Electronic	data base consulted during the international search (name of data	a base and, where practical, search terms us	ed)
6 000111			
	ENTS CONSIDERED TO BE RELEVANT		
Category '	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
A	GB 2 307 381 A (SIEMENS) 21 May see the whole document	1997	1-7
A	WO 97 27546 A (EX MACHINA INC) 31 July 1997 see figure 1		1-7
			·
Furt	ther documents are listed in the continuation of box C.	Patent family members are list	ed in annex.
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Date of the	actual completion of the international search	Date of mailing of the international	
1	17 March 1999	23/03/1999	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk	Authorized officer	
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Form PCT/ISA/210 (second sheet) (July 1992)

IN NATIONAL SEARCH REPORT

PCT/EP 98/07517

Patent document cited in search report	-	Publication date		Patent family member(s)	Publication date
GB 2307381	A	21-05-1997	DE FR	19542780 A 2741495 A	22-05-1997 23-05-1997
WO 9727546	A	31-07-1997	AU CA EP	1754397 A 2243555 A 0886826 A	20-08-1997 31-07-1997 30-12-1998

INTERNATIONAL SEARCH REPORT



national Application No T/EP 98/07517

A. CLASSII IPC 6	FICATION OF SUBJECT MATTER H04L29/06		
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
B. FIELDS	SEARCHED		
Minimum do	cumentation searched (classification system followed by classification	on symbols)	
IPC 6	HO4N HO4L		
Documentat	ion searched other than minimum documentation to the extent that s	such documents are included in the fields se	arched
Electronic da	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.
Α	GB 2 307 381 A (SIEMENS) 21 May 3 see the whole document	1997	1-7
Α	WO 97 27546 A (EX MACHINA INC) 31 July 1997 see figure 1		1-7
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Furti	her documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.
"A" docume	ategories of cited documents : ent defining the general state of the art which is not dered to be of particular relevance	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or th	the application but
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other	means ent published prior to the international filing date but han the priority date claimed	ments, such combination being obvio in the art. "&" document member of the same patent	us to a person skilled
Date of the	actual completion of the international search	Date of mailing of the international se	arch report
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	NL - 2280 FV HISWIK Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Yvonnet, J	

INTERNATIONAL SEARCH REPORT

ition on patent family members

rnational	Application No
T/EP	98/07517

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2307381 A	21-05-1997	DE 19542780 A FR 2741495 A	22-05-1997 23-05-1997
WO 9727546 A	31-07-1997	AU 1754397 A CA 2243555 A EP 0886826 A	20-08-1997 31-07-1997 30-12-1998



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.		
WO 2538dV/jdh	ACTION	(Earliest) Priority Date (day/month/year)		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/EP 98/07517	16/11/1998	24/11/1997		
Applicant				
IRDETO B.V. et al.				
This International Search Report has bee according to Article 18. A copy is being to	en prepared by this International Searching Aut cansmitted to the International Bureau.	hority and is transmitted to the applicant		
This International Search Report consists	s of a total of 2 sheets.			
	a copy of each prior art document cited in this	report.		
1. Basis of the report	international search was carried out on the ba	cic of the international application in the		
language in which it was filed, ur	less otherwise indicated under this item.	sis of the international approacion in the		
the international search (Authority (Rule 23.1(b)).	was carried out on the basis of a translation of t	the international application furnished to this		
		nternational application, the international search		
was carried out on the basis of the	ne sequence listing: onal application in written form.	·		
l <u>—</u>	ernational application in computer readable for	m.		
	o this Authority in written form.			
	o this Authority in computer readble form.			
the statement that the suinternational application	bsequently furnished written sequence listing o as filed has been furnished.	does not go beyond the disclosure in the		
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished				
2. Certain claims were for	und unsearchable (See Box I).			
3. Unity of invention is la	cking (see Box II).			
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	ubmitted by the applicant.			
the text has been establi	shed by this Authority to read as follows:	-		
- 1450				
5. With regard to the abstract , the text is approved as submitted by the applicant.				
the text has been established	shed, according to Rule 38.2(b), by this Author	ity as it appears in Box III. The applicant may,		
within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawings to be put		1		
as suggested by the app		None of the figures.		
because the applicant fa				
because this figure bette	r characterizes the invention.			



From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

DE VRIES, Johannes, Hendrik. Fokke De Vries & Metman B.V. Overschiestraat 184 N NL-1062 XK Amsterdam PAYS-BAS

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1)

Date of mailing (day/month/year)

1 9, 07, 99

Applicant's or agent's file reference WO 2538dV/jdh

International application No.

International filing date (day/month/year)

16/11/1998

Priority date (day/month/year)

IMPORTANT NOTIFICATION

24/11/1997

Applicant

IRDETO B.V. et al.

PCT/EP98/07517

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

Ahrens, R

European Patent Office D-80298 Munich Tel. (+49-89) 2399-0 Tx: 523656 epmu d

Fax: (+49-89) 2399-4465

Tel.(+49-89) 2399-8136





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WO 2538dV/jdh			FOR FURTHER ACTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.		ication No.	International filing date (day/month	/year)	Priority date (day/month/year)
PCT/EPS	98/07	517	16/11/1998		24/11/1997
Internation H04L29/		ent Classification (IPC) or na	tional classification and IPC		
Applicant IRDETO B.V. et al.					
	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This	2. This REPORT consists of a total of 4 sheets, including this cover sheet.				
☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
Thes	These annexes consist of a total of sheets.				
3. This	report	contains indications rela	ting to the following items:		
1	×	Basis of the report			
II Priority					
111			pinion with regard to novelty, inv	entive step	and industrial applicability
IV		Lack of unity of invention	on		
V	 Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement 				
VI		Certain documents cite	ed		
VII Certain defects in the international application					
VIII		Certain observations or	n the international application		
Date of sul	omissio	on of the demand	Date of d	completion of	this report 19.07.99
26/03/19	99				, 4, 01, 3 0
	exam	g address of the international	l Authoriz	ed officer	September Million
European Patent Office D-80298 Munich Tel. (+49-89) 2399-0 Tx: 523656 6			Willem	s, B	
Fax: (+49-89) 2399-4465			Telepho	ne No. (+49-8	9) 2399

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP98/07517

I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

	Des	cription, pages:				
	1-5		as originally filed			
	Cla	ims, No.:				
	1-7		as originally filed			
	Drawings, sheets:					
	1/1		as originally filed			
2.	The	amendments have	e resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
3.	<u> </u>		een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):			
A	Δdc	litional observation	s if necessary:			



International application No:--PCT/EP98/07517

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: No:

Claims 1-7 Claims

Inventive step (IS)

Yes:

Yes:

Claims 1-7

Claims 1-7

No: Claims

Industrial applicability (IA)

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Reasoned statement under Article 35(2) PCT

1. Cited documents:

D1 = GB-A-2 307 381

D2 = WO97/27546

Document D1 discloses a system for retrieving wide-band information via a wide-2. band network (page 3, lines 2 to 5). A computer terminal is connected to both the wide-band network and a conventional computer network (page 3, lines 7 and 8). The user selects with the aid of the terminal via the computer network an offer of a wide-band service. Thereupon the server of the computer network transmits access data used to access the server of the wide-band service (paragraph bridging pages 4 and 5).

Document D2 discloses wirelessly broadcasting data packets with embedded URLs allowing a terminal user to access an information source for more detailed data.

- 3. Neither Document D1 nor Document D2 discloses a memory for storing tuning data. The stored data facilitates automatic tuning upon selection of a URL for a broadcast service. Therefore, claim 1 meets the requirements of Articles 33(2) and 33(3) PCT.
- 4. Claims 2 to 7 are either directly or indirectly dependent on claim 1. Therefore, claims 2 to 7 meet the requirements of Article 33(2) and 33(3) PCT.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference		See Notification of Transmittal of International	
WO 2538	3dV/jdh	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)	
Internationa	application No.	International filing date (day/mon	nth/year) Priority date (day/month/year)	
PCT/EPS	8/07517	16/11/1998	24/11/1997	
International H04L29/		r national classification and IPC		
IRDETO	B.V. et al.			
	nternational preliminary ex transmitted to the applica		ed by this International Preliminary Examining Authority	
2. This l	REPORT consists of a tota	l of 4 sheets, including this cover	sheet.	
(:	een amended and are the	basis for this report and/or sheets n 607 of the Administrative Instruc	the description, claims and/or drawings which have containing rectifications made before this Authority ctions under the PCT).	
3. This	eport contains indications Basis of the report	relating to the following items:		
'i	☐ Priority			
"	•	of opinion with regard to novelty, in	nventive step and industrial applicability	
iv	☐ Lack of unity of inve	- ·		
V	_			
VI	☐ Certain documents	·		
VII ☐ Certain defects in the international application				
VIII	☐ Certain observation	s on the international application		
Date of sub	mission of the demand	Date o	of completion of this report	
26/03/1999			1 9. 07. 99	
	mailing address of the internat examining authority:	tional Author	rized officer	
)	European Patent Office D-80298 Munich Tel.*(+49-89) 2399-0 Tx: 52		ems, B	
Fax: (+49-89) 2399-4465			hone No. (+49-89) 2399	

International application No. PCT/EP98/07517

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	Dra	wings, sheets:		
	1/1		as originally filed	
2.	The	amendments hav	e resulted in the cancellation of:	
		the description,	pages:	
		the claims,	Nos.:	
		the drawings,	sheets:	
3.		This report has be considered to go	een established as if (some of) the amendments had not been made, since they have be beyond the disclosure as filed (Rule 70.2(c)):	en
4	۸da	ditional obse n yatio	ns if necessary	



International application No. PCT/EP98/07517

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-7

No:

Claims

Inventive step (IS)

Yes:

Claims 1-7

No: Yes: Claims

Industrial applicability (IA)

Claims 1 - 7

No: Claims

2. Citations and explanations

see separate sheet

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